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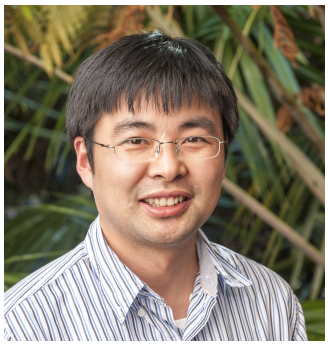

Education

PhD, City University of Hong Kong, China, 2009

MPhil, City University of Hong Kong, China, 2006

Bachelor of Science, City University of Hong Kong, China, 2004

Academic Appointments

Associate Professor of Computer Science, School of Computing and Information Systems, SMU, Aug 2022 - Present

Academic Administrative Positions

Coordinator, BSc (CS) Cybersecurity Track, School of Computing and Information Systems, SMU, Jul 2023 - Present

RESEARCH

Publications

Journal Articles [Refereed]

STDA: Secure Time Series Data Analytics with practical efficiency in wide-area network, by LI, Xiaoguo; HUANG Zixi; ZHAO, Bowen; YANG, Guomin; XIANG, Tao; DENG, Robert H.. (2023). *IEEE Transactions on Information Forensics and Security, 19* 1440-1454. (Published)

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Sanitizable Access Control System for Secure Cloud Storage Against Malicious Data Publishers, by SUSILO, Willy; JIANG, Peng; LAI, Jianchang; GUO, Fuchun; YANG, Guomin; DENG, Robert H.. (2022). *IEEE Transactions on Dependable and Secure Computing, 19* (3), 2138-2148. https://doi.org/10.1109/TDSC.2021.3058132 (Published)

Message-Locked Searchable Encryption: A New Versatile Tool for Secure Cloud Storage, by LIU, Xueqiao; YANG, Guomin; SUSILO, Willy; TONIEN, Joseph; CHEN, Rongmao; LV, Xixiang. (2022). *IEEE Transactions on Services Computing, 15* (3), 1664-1677. http://doi.org/10.1109/TSC.2020.3006532 (Published)

Efficient Certificateless Multi-Copy Integrity Auditing Scheme Supporting Data Dynamics, by ZHOU, Lei; FU, Anmin; YANG, Guomin; WANG, Huaqun; ZHANG, Yuqing. (2022). *IEEE Transactions on Dependable and Secure Computing, 19* (2), 1118-1132. http://doi.org/10.1109/TDSC.2020.3013927 (Published)

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An Efficient Privacy Preserving Message Authentication Scheme for Internet-of-Things, by WEI, Jiannan; PHUONG, Tran Viet Xuan; YANG, Guomin. (2021). *IEEE Transactions on Industrial Informatics, 17* (1),

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Hierarchical Identity-Based Signature in Polynomial Rings, by YANG, Zhichao; DUONG, Dung H.; SUSILO, Willy; YANG, Guomin; LI, Chao; CHEN, Rongmao. (2020). *Computer Journal, 63* (10), 1490-1499. http://doi.org/10.1093/comjnl/bxaa033 (Published)

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Server-Aided Public Key Encryption With Keyword Search, by CHEN, Rongman; MU, Yi; YANG, Guomin; GUO, Fuchun; HUANG, Xinyi; WANG, Xiaofen; WANG, Yongjun. (2016). *IEEE Transactions on Information Forensics and Security, 11* (12), 2833-2842. http://doi.org/10.1109/TIFS.2016.2599293 (Published)

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Dual-Server Public-Key Encryption With Keyword Search for Secure Cloud Storage, by CHEN, Rongmao; MU, Yi; YANG, Guomin; GUO, Fuchun; WANG, Xiaofen. (2016). *IEEE Transactions on Information Forensics and Security, 11* (4), 789-798. http://doi.org/10.1109/TIFS.2015.2510822 (Published)

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On Indistinguishability in Remote Data Integrity Checking, by FAN, Xinyu; YANG, Guomin; MU, Yi; YU, Yong. (2015). *Computer Journal, 58* (4), 823-830. http://doi.org/10.1093/comjnl/bxt137 (Published)

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A new efficient optimistic fair exchange protocol without random oracles, by HUANG, Qiong; YANG, Guomin; WONG, Duncan S.; SUSILO, Willy. (2012). *International Journal of Information Security, 11* (1), 53-63. http://doi.org/10.1007/s10207-011-0152-3 (Published)

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Strongly secure certificateless key exchange without pairing, by YANG, Guomin; TAN, Chik How . (2011.0). *Proceedings of the 6th ACM Symposium on Information, Compuer and Communications Security, Hong Kong, China, 2011 March 22-24,* (pp. 71-79) Hong Kong, China: ACM. http://doi.org/10.1145/1966913 (Published)

Authenticated key exchange under bad randomness, by YANG, Guomin; DUAN, Shanshan; WONG, Duncan S.; TAN, Chik How; WANG, Huaxiong
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Probabilistic public key encryption with equality test, by YANG, Guomin; TAN, Chik How; HUANG, Qiong; WONG, Duncan S.. (2010.0). *Topics in Cryptology: Cryptographers' Track at the RSA Conference, CT-RSA 2010, San Francisco, March 1-5: Proceedings,* (pp. 119-131) Cham: Springer. https://doi.org/10.1007/978-3-642-11925-5_9 (Published)

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Efficient optimistic fair exchange secure in the multi-user setting and chosen-key model without random oracles, by HUANG, Qiong; YANG, Guomin; WONG, Duncan S.; SUSILO, Willy. (2008.0). *Proceedings of the Cryptographers' Track at the RSA Conference 2008, San Francisco, April 8-11,* (pp. 106-120) San Francisco: Springer Verlag. http://doi.org/10.1007/978-3-540-79263-5_7 (Published)

Time capsule signature: Efficient and provably secure constructions, by HU, Bessie C.; WONG, Duncan S.; HUANG, Qiong; YANG, Guomin; DENG, Xiaotie . (2007.0). *Public Key Infrastructure: 4th European PKI Workshop: Theory and Practice, Palma de Mallorca, Spain, June 28-30: Proceedings,* (pp. 127-142) Cham: Springer. https://doi.org/10.1007/978-3-540-73408-6_9 (Published)

A more natural way to construct identity-based identification schemes, by YANG, Guomin; CHEN, Jing; WONG, Duncan S.; DENG, Xiaotie; WANG, Dongsheng. (2007.0). *Applied Cryptography and Network Security: 5th International Conference, ACNS 2007, Zhuhai, China, June 5-8: Proceedings ,* (pp. 307-322) Cham: Springer. https://doi.org/10.1007/978-3-540-72738-5_20 (Published)

Malicious KGC attacks in certificateless cryptography, by AU, Man Ho; CHEN, Jing; LIU, Joseph K.; MU, Yi; WONG, Duncan S.; YANG, Guomin. (2007.0). *Proceedings of the 2nd ACM Symposium on Information, Computer and Communications Security, Singapore, 2007 March 20-22,* (pp. 302-311) Singapore: ACM. http://doi.org/10.1145/1229285.1266997 (Published)

Formal analysis and systematic construction of two-factor authentication scheme, by YANG, Guomin; WONG, Duncan S.; WANG, Huaxiong; DENG, Xiaotie. (2006.0). *Information and Communications Security: 8th International Conference, ICIS 2006, Raleigh, NC, December 4-7: Proceedings,* (pp. 82-91) Cham: Springer. https://doi.org/10.1007/11935308_7 (Published)

Anonymous signature schemes, by YANG, Guomin; WONG, Duncan S.; DENG, Xiaotie; WANG, Huaxiong . (2006.0). *Public Key Cryptography: 9th International Conference on Theory and Practice of Public-Key Cryptography, PKC 2006, New York, April 24-26,* (pp. 347-363) Cham: Springer. https://doi.org/10.1007/11745853_23 (Published)

Deposit-case attack against secure roaming, by YANG, Guomin; WONG, Duncan S.; DENG, Xiaotie . (2005.0). *Information Security and Privacy: 10th Australasian Conference, ACISP 2005, Brisbane, Australia, July 4-6: Proceedings,* (pp. 417-428) Cham: Springer. https://doi.org/10.1007/11506157_35 (Published)

Efficient anonymous roaming and its security analysis, by YANG, Guomin; WONG, Duncan S.; DENG, Xiaotie. (2005.0). *Applied Cryptography and Network Security: 3rd International Conference, ACNS 2005, New York, June 7-10: Proceedings,* (pp. 334-349) Cham: Springer. https://doi.org/10.1007/11496137_23 (Published)

Research Grants

Singapore Management University

Trusted Decentralized Identities, Digital Trust Centre (DTC) Research Grant, National Research Foundation (NRF) , PI (Project Level): YANG Guomin , Co-PI (Project Level): Robert H DENG

Privacy Preserving Self-Sovereign Digital Identity, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): YANG Guomin, 2022, S$97,562.15

Other Institutions

Securing Public Cloud Storage with Protection against Malicious Senders, ARC Discovery Project, Australia Research Council Co-PI (Project Level): YANG Guomin

Efficient Multi-key Homomorphic Encryption and Its Applications, ARC Linkage Project, Australia Research Council Co-PI (Project Level): YANG Guomin

On the Structure of Lattices for Post-Quantum Cryptography, Measurement Science and Engineering Research Grant Programme, National Institute of Standards and Technology Co-PI (Project Level): YANG Guomin

Real Time Visualisation of Intrusion Detection and Behavioural Analytics Data for Combatting Cyber Attacks, Pilot Grant Scheme, NSW Cyber Security Network Co-PI (Project Level): YANG Guomin

Leakage-resilient and Quantum-secure Authenticated Key Exchange Protocol, ARC DECRA Project, Australia Research Council PI (Project Level): YANG Guomin

Post-Quantum Cryptology: New Approach and Investigation, General Research Fund, Australia National

Security Science and Technology Centre Co-PI (Project Level): YANG Guomin

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes :

- Data Security and Privacy
- Foundations of Cybersecurity
- Introduction to Programming

Postgraduate Research Programmes :

- Empirical Research Project 1

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

Other Institutions

Supervisor, "Searchable Encryption for Cloud and Distributed Systems", Thesis by LIU Xueqiao, University of Wollongong, 2017

Supervisor, "Privacy-preserving Cryptographic Solutions for Cloud Storage", Thesis by WU Tong, University of Wollongong, 2016

Supervisor, "Practical revocable cryptographic schemes for cloud-based applications", Thesis by XU Shengmin, University of Wollongong, 2015

Supervisor, "Privacy-enhanced key management for distributed systems", Thesis by TIAN Yangguang, University of Wollongong, 2013

Supervisor, "Contributions to Privacy-Preserving Digital Signatures and Their Applications", Thesis by WEI Jiannan, University of Wollongong, 2012

Theses and Dissertations Assessed

Other Institutions

Co Supervisor, "Contributions to Blockchain-Based Security Protocols", Thesis by LI Yannan, University of Wollongong, 2017

Co Supervisor, "New Conditional Privacy-preserving Encryption Schemes in Communication Network", Thesis by YAO Zhongyuan, University of Wollongong, 2014

Co Supervisor, "Practical functional encryption techniques and their applications", Thesis by ZHANG Shiwei, University of Wollongong, 2014

Co Supervisor, "Secure Data Storage and Retrieval in Cloud Computing", Thesis by CHEN Rongmao, University of Wollongong, 2013

Co Supervisor, "Attribute-Based Encryption Schemes", Thesis by PHUONG Tran Viet Xuan, University of Wollongong, 2013

Co Supervisor, "Contributions to Cryptography with Restricted Conditions", Thesis by LIU Weiwei, University of Wollongong, 2012

EXTERNAL SERVICE – PROFESSIONAL

Committee Member, 6th IEEE Conference on Dependable and Secure Computing, 2023

Committee Member, 18th ACM ASIA Conference on Computer and Communications Security, 2023

Committee Member, 28th Australasian Conference on Information Security and Privacy, 2023

Conference Chair, 27th Australasian Conference on Information Security and Privacy, 2022

Committee Member, 27th European Symposium on Research in Computer Security, 2022

Committee Member, JTC 1/SC 27/WG 2, ISO/IEC, 2018 - 2022

Editor Associate Editor, Theoretical Computer Science Journal, 2018 - Present